

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534632

Luminaire Tested: **GALN-SA9A-AMB-U-SL4**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-AMB-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8182 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

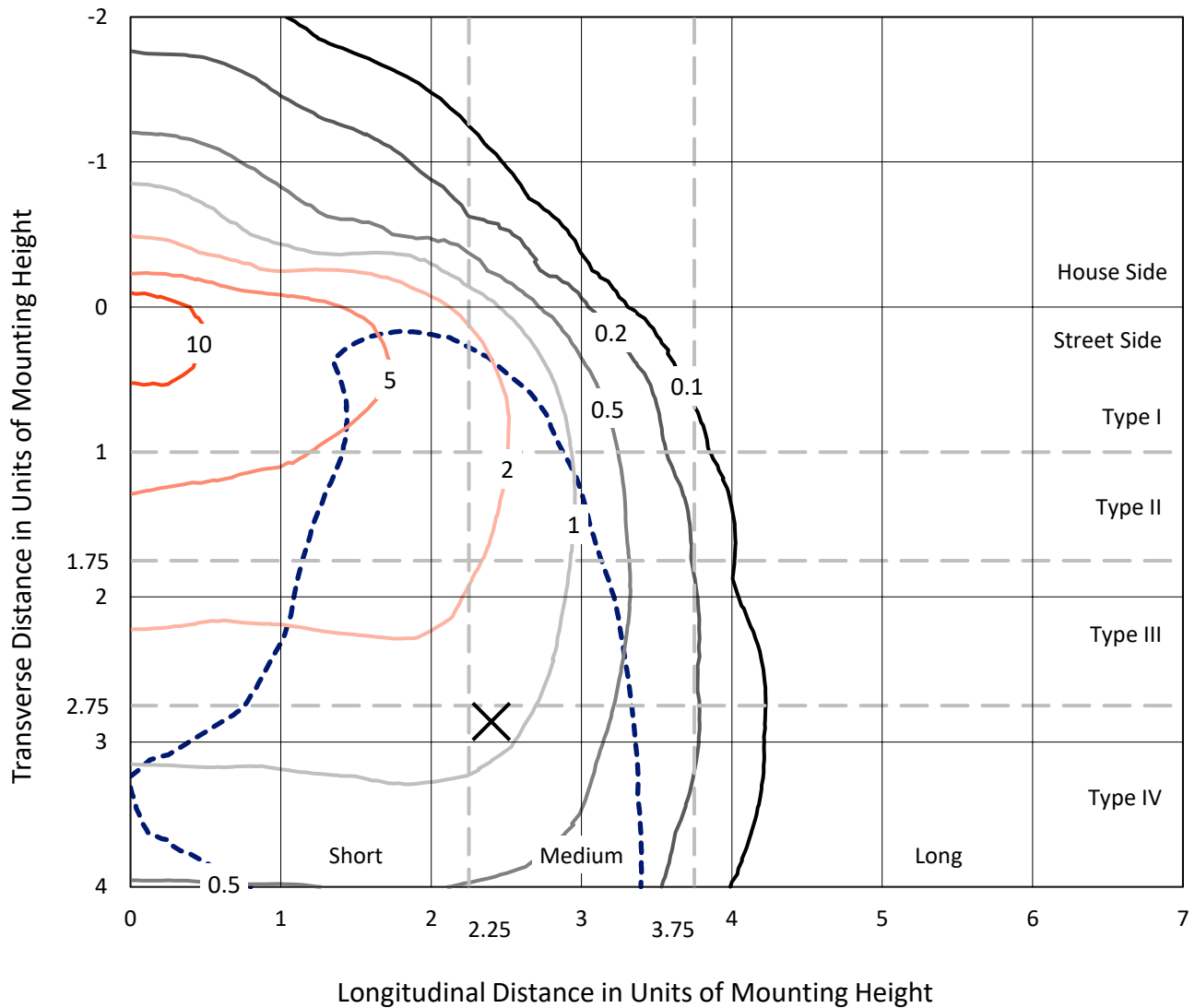


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

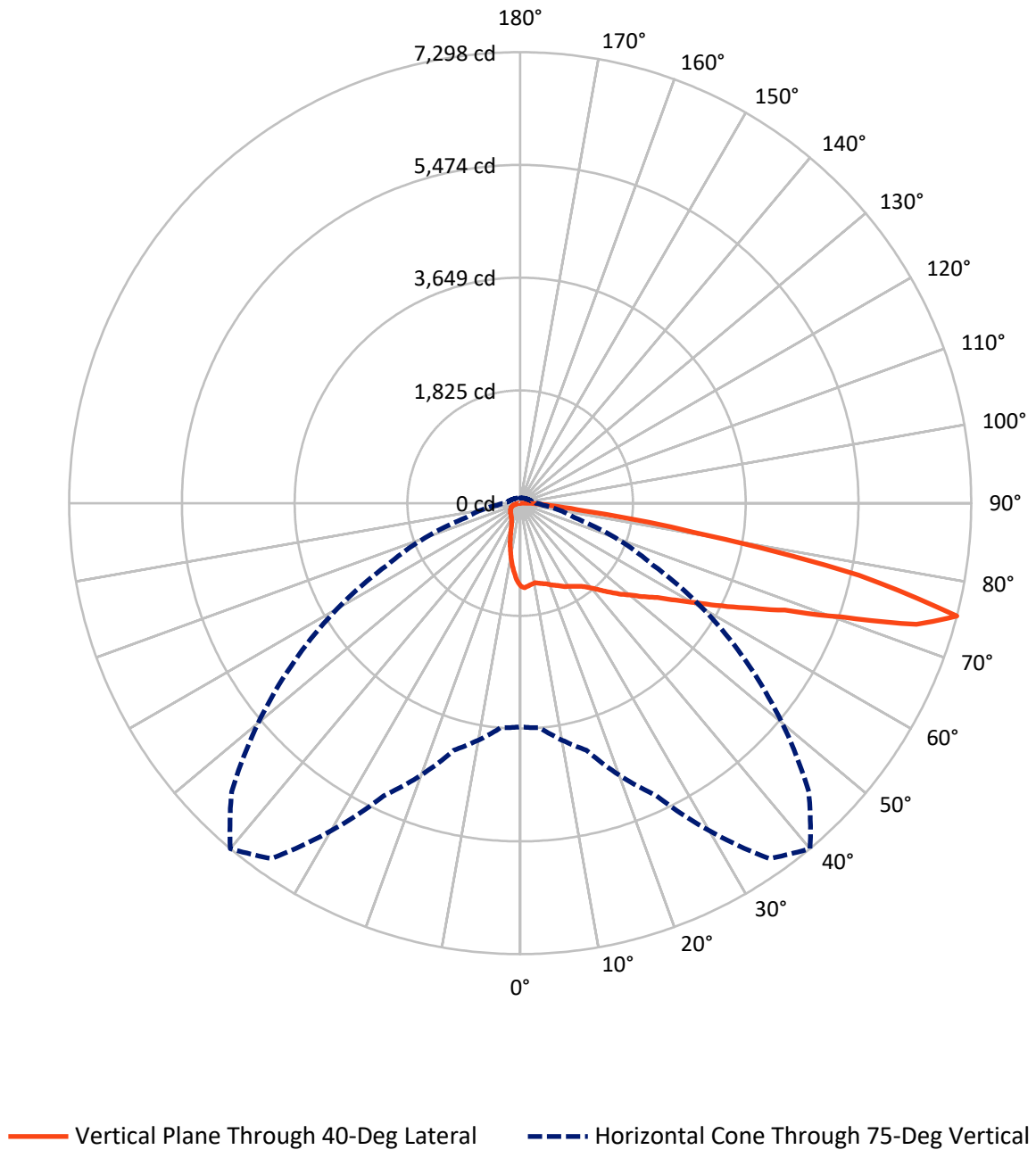


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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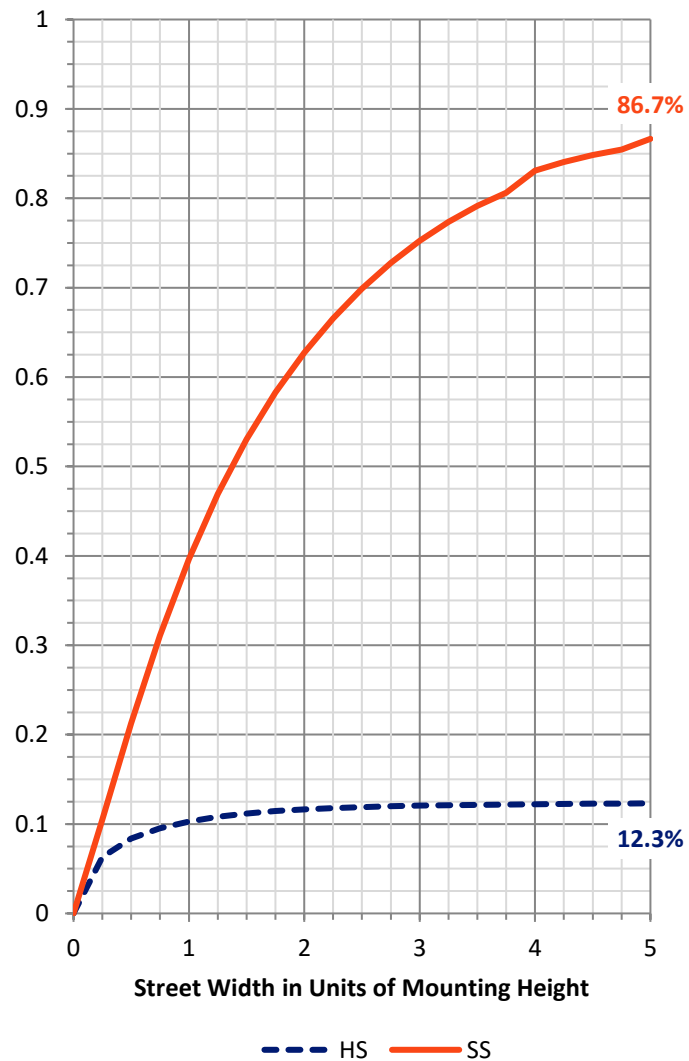
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.9	0.0	1017.9
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	7164.1	0.0	7164.1
	% Fixture	87.6	0.0	87.6
Total	Lumens	8182.0	0.0	8182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.4
10°-20°	290.9	3.6
20°-30°	449.3	5.5
30°-40°	653.6	8.0
40°-50°	978.1	12.0
50°-60°	1461.5	17.9
60°-70°	2059.2	25.2
70°-80°	1894.5	23.2
80°-90°	279.4	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8182.0	100.0
0°-180°	8182.0	100.0

Coefficient of Utilization



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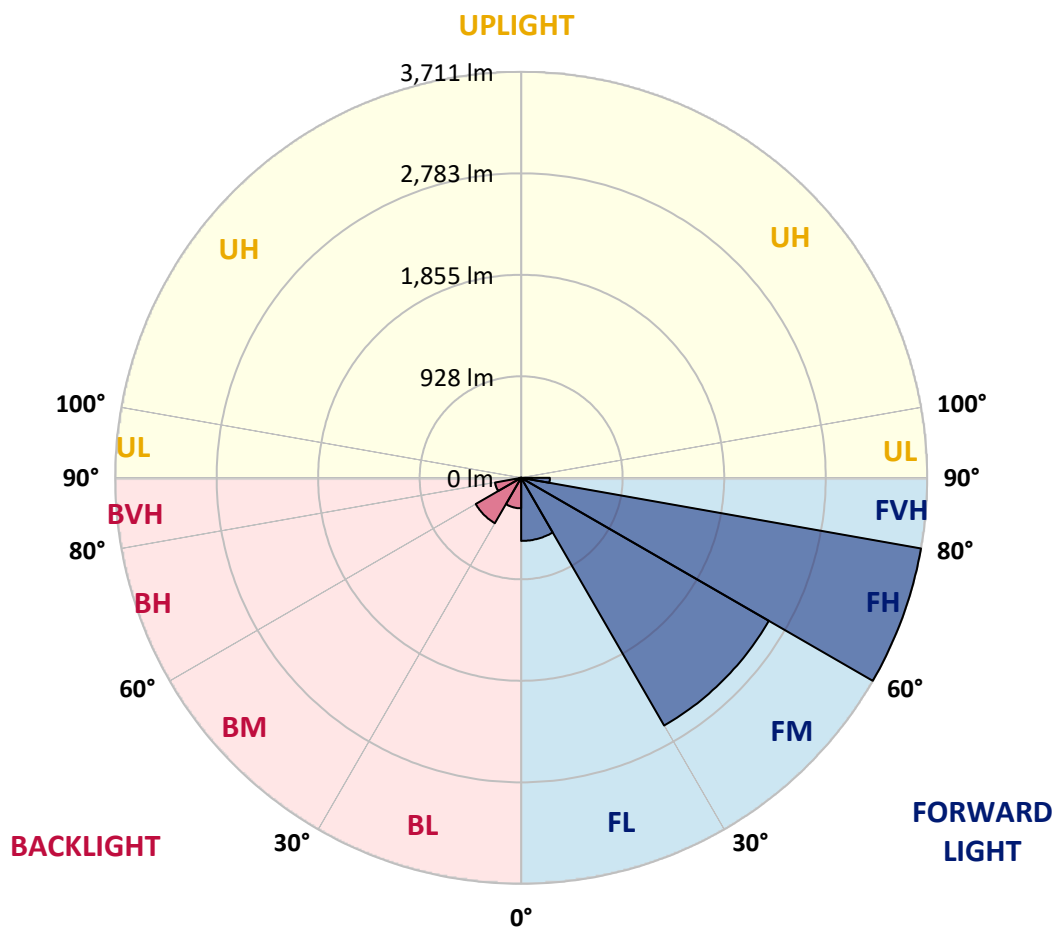
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	577.1	7.1			
FM	(30°-60°)	2614.1	31.9			
FH	(60°-80°)	3710.9	45.4			G2/5000
FVH	(80°-90°)	261.9	3.2			G3/500
BL	(0°-30°)	278.5	3.4	B1/500		
BM	(30°-60°)	479.1	5.9	B1/1000		
BH	(60°-80°)	242.8	3.0	B1/500		G1/500
BVH	(80°-90°)	17.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1369.3	1373.0	1369.3	1369.3	1361.9	1369.3	1358.2	1354.5	1347.1	1347.1	1332.3
5°	1350.8	1358.2	1350.8	1350.8	1347.1	1347.1	1336.0	1332.3	1321.2	1321.2	1302.7
7.5°	1321.2	1317.5	1321.2	1321.2	1321.2	1324.9	1317.5	1306.4	1302.7	1287.9	1280.5
10°	1291.6	1299.0	1295.3	1306.4	1310.1	1310.1	1310.1	1302.7	1295.3	1276.8	1265.7
12.5°	1262.0	1265.7	1287.9	1302.7	1321.2	1328.6	1324.9	1317.5	1306.4	1284.2	1254.6
15°	1269.4	1258.3	1280.5	1313.8	1339.7	1350.8	1336.0	1336.0	1310.1	1284.2	1254.6
17.5°	1265.7	1265.7	1295.3	1336.0	1369.3	1373.0	1373.0	1354.5	1328.6	1302.7	1254.6
20°	1284.2	1284.2	1321.2	1365.6	1402.6	1410.0	1406.3	1369.3	1339.7	1310.1	1280.5
22.5°	1321.2	1324.9	1361.9	1413.7	1432.3	1443.4	1432.3	1395.2	1361.9	1339.7	1291.6
25°	1380.4	1376.7	1406.3	1458.2	1487.8	1480.4	1480.4	1421.2	1384.1	1369.3	1328.6
27.5°	1432.3	1436.0	1454.5	1506.3	1521.1	1528.5	1513.7	1447.1	1413.7	1417.4	1369.3
30°	1502.6	1510.0	1521.1	1547.0	1558.1	1561.8	1561.8	1495.2	1458.2	1480.4	1413.7
32.5°	1591.4	1587.7	1591.4	1609.9	1591.4	1602.5	1598.8	1535.9	1517.4	1565.5	1484.1
35°	1687.6	1687.6	1676.5	1665.4	1635.8	1650.6	1650.6	1591.4	1598.8	1676.5	1558.1
37.5°	1787.5	1772.7	1754.2	1720.9	1698.7	1717.2	1728.3	1676.5	1709.8	1824.6	1695.0
40°	1880.1	1850.5	1813.4	1794.9	1780.1	1809.7	1824.6	1794.9	1843.1	2017.0	1876.4
42.5°	1935.6	1931.9	1887.5	1865.3	1880.1	1928.2	1935.6	1920.8	2017.0	2239.1	2079.9
45°	2005.9	1987.4	1946.7	1935.6	1998.5	2061.4	2083.6	2065.1	2213.1	2516.6	2294.6
47.5°	2050.3	2031.8	1998.5	2024.4	2116.9	2202.0	2250.2	2250.2	2442.6	2809.0	2527.7
50°	2094.7	2068.8	2050.3	2135.4	2231.7	2339.0	2405.6	2450.0	2690.6	3105.1	2797.9
52.5°	2172.4	2128.0	2109.5	2257.6	2376.0	2516.6	2627.6	2672.1	2979.2	3430.7	3057.0
55°	2276.1	2246.5	2190.9	2390.8	2546.2	2694.3	2834.9	2957.0	3260.5	3726.8	3271.6
57.5°	2387.1	2353.8	2309.4	2557.3	2786.8	2960.7	3101.4	3279.0	3589.9	4052.5	3467.8
60°	2531.4	2498.1	2464.8	2753.5	3075.5	3267.9	3445.6	3641.7	3941.5	4315.3	3630.6
62.5°	2672.1	2642.5	2638.8	2968.1	3408.5	3660.2	3804.5	4022.9	4267.2	4529.9	3704.6
65°	2846.0	2831.2	2823.8	3230.9	3837.8	4093.2	4248.6	4478.1	4644.6	4711.3	3604.7
67.5°	3008.8	3027.3	3090.3	3552.9	4304.2	4618.7	4855.6	5099.9	5044.3	4726.1	3086.6
70°	3316.0	3323.4	3471.5	4026.6	5040.6	5514.4	5788.2	5754.9	5096.2	4096.9	2102.1
72.5°	3641.7	3697.2	3971.1	4744.6	6173.1	6706.1	6787.5	5843.7	4304.2	2598.0	903.0
75°	3619.5	3649.1	4137.6	5225.7	7020.6	7298.2	6602.4	4459.6	2372.3	906.7	373.8
77.5°	2886.7	2968.1	3497.4	4618.7	6002.9	5599.5	4285.7	2216.8	758.7	333.1	225.8
80°	1354.5	1510.0	1832.0	2409.3	3234.6	2827.5	1832.0	903.0	381.2	214.7	159.1
82.5°	632.9	658.8	732.8	799.4	1080.7	1051.1	758.7	710.6	292.4	129.5	77.7
85°	433.0	470.0	521.8	458.9	495.9	492.2	525.5	703.2	203.6	74.0	48.1
87.5°	296.1	314.6	351.6	270.2	299.8	277.6	329.4	606.9	66.6	29.6	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1324.9	1317.5	1295.3	1291.6	1287.9	1265.7	1262.0	1250.9	1243.5	1239.8	1243.5
5°	1295.3	1284.2	1258.3	1236.1	1195.4	1158.4	1132.5	1106.6	1088.1	1091.8	1091.8
7.5°	1269.4	1258.3	1217.6	1176.9	1106.6	1054.8	991.8	943.7	914.1	891.9	899.3
10°	1250.9	1232.4	1180.6	1106.6	1017.8	928.9	858.6	780.9	732.8	714.3	714.3
12.5°	1243.5	1221.3	1136.2	1036.3	921.5	814.2	710.6	629.2	569.9	555.1	547.7
15°	1236.1	1195.4	1088.1	958.5	817.9	695.8	584.7	507.0	440.4	414.5	418.2
17.5°	1232.4	1184.3	1043.7	888.2	725.4	581.0	477.4	396.0	359.0	340.5	340.5
20°	1236.1	1173.2	1006.6	803.1	621.8	481.1	384.9	336.8	314.6	303.5	307.2
22.5°	1247.2	1158.4	943.7	721.7	536.6	403.4	336.8	310.9	296.1	288.7	288.7
25°	1262.0	1158.4	903.0	632.9	458.9	355.3	307.2	292.4	281.3	281.3	273.9
27.5°	1291.6	1162.1	847.5	558.8	396.0	318.3	292.4	277.6	270.2	270.2	270.2
30°	1306.4	1158.4	795.7	492.2	347.9	296.1	273.9	270.2	266.5	259.1	259.1
32.5°	1343.4	1154.7	736.5	433.0	314.6	277.6	262.8	259.1	255.4	251.7	251.7
35°	1406.3	1169.5	662.5	384.9	288.7	262.8	251.7	248.0	244.3	244.3	240.6
37.5°	1484.1	1191.7	610.7	344.2	270.2	248.0	240.6	236.9	236.9	236.9	236.9
40°	1606.2	1239.8	566.2	318.3	255.4	236.9	229.5	229.5	229.5	225.8	225.8
42.5°	1743.1	1299.0	529.2	299.8	248.0	229.5	222.1	218.4	218.4	218.4	218.4
45°	1906.0	1361.9	495.9	285.0	244.3	225.8	218.4	211.0	211.0	211.0	207.3
47.5°	2079.9	1436.0	470.0	277.6	236.9	222.1	211.0	207.3	203.6	199.8	199.8
50°	2268.7	1521.1	458.9	273.9	233.2	214.7	203.6	199.8	196.1	188.7	188.7
52.5°	2446.3	1606.2	466.3	270.2	229.5	207.3	196.1	196.1	188.7	181.3	185.0
55°	2590.6	1687.6	473.7	270.2	225.8	196.1	188.7	188.7	181.3	173.9	173.9
57.5°	2720.2	1746.8	477.4	273.9	225.8	188.7	177.6	181.3	173.9	170.2	170.2
60°	2816.4	1769.0	477.4	281.3	225.8	181.3	166.5	173.9	170.2	162.8	166.5
62.5°	2809.0	1680.2	444.1	285.0	225.8	177.6	159.1	166.5	173.9	166.5	166.5
65°	2557.3	1339.7	384.9	266.5	222.1	173.9	148.0	159.1	170.2	166.5	166.5
67.5°	1935.6	888.2	310.9	240.6	203.6	166.5	140.6	140.6	151.7	148.0	151.7
70°	1132.5	481.1	255.4	207.3	177.6	151.7	129.5	122.1	122.1	122.1	122.1
72.5°	466.3	281.3	207.3	173.9	151.7	129.5	114.7	103.6	99.9	99.9	99.9
75°	259.1	207.3	170.2	140.6	122.1	107.3	99.9	88.8	85.1	85.1	85.1
77.5°	188.7	170.2	136.9	107.3	92.5	85.1	77.7	74.0	70.3	70.3	70.3
80°	144.3	133.2	103.6	81.4	70.3	59.2	59.2	55.5	55.5	55.5	55.5
82.5°	85.1	99.9	74.0	55.5	51.8	44.4	40.7	40.7	40.7	37.0	37.0
85°	55.5	74.0	44.4	33.3	25.9	22.2	25.9	22.2	22.2	18.5	18.5
87.5°	11.1	22.2	11.1	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)